

STATE OF TEXAS STATE HIGHWAY DEPARTMENT

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

STATE PROJECT C-451-4-3

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE (QUANTITY SUMMARY)
3	TYPICAL SECTIONS (URBAN)
4	TYPICAL SECTIONS (RURAL)
5	FLEX. BASE HAUL DIAGRAM
6-7	CITY STREET LAYOUT
8-16	PLAN PROFILE SHEETS
17	INTERSECTIONS
18-21	CULVERT CROSS SECTIONS
22	BRIDGE LAYOUT
23	DROP INLET DETAILS
24	EROSION CONTROL
25	DRAINAGE AREAS
26	BC-1
27	BC-2
28	W-2
29	LENGTHENING DETAILS, C-7 & NC-7
30	CH-7B HEADWALLS
31	FS-8-24-25
32	RR-8
33	WINGWALLS FOR SLAB SPANS (FS-SERIES)
34	M-47
35-36	BW-46 (1, 2)
37	SWC-39

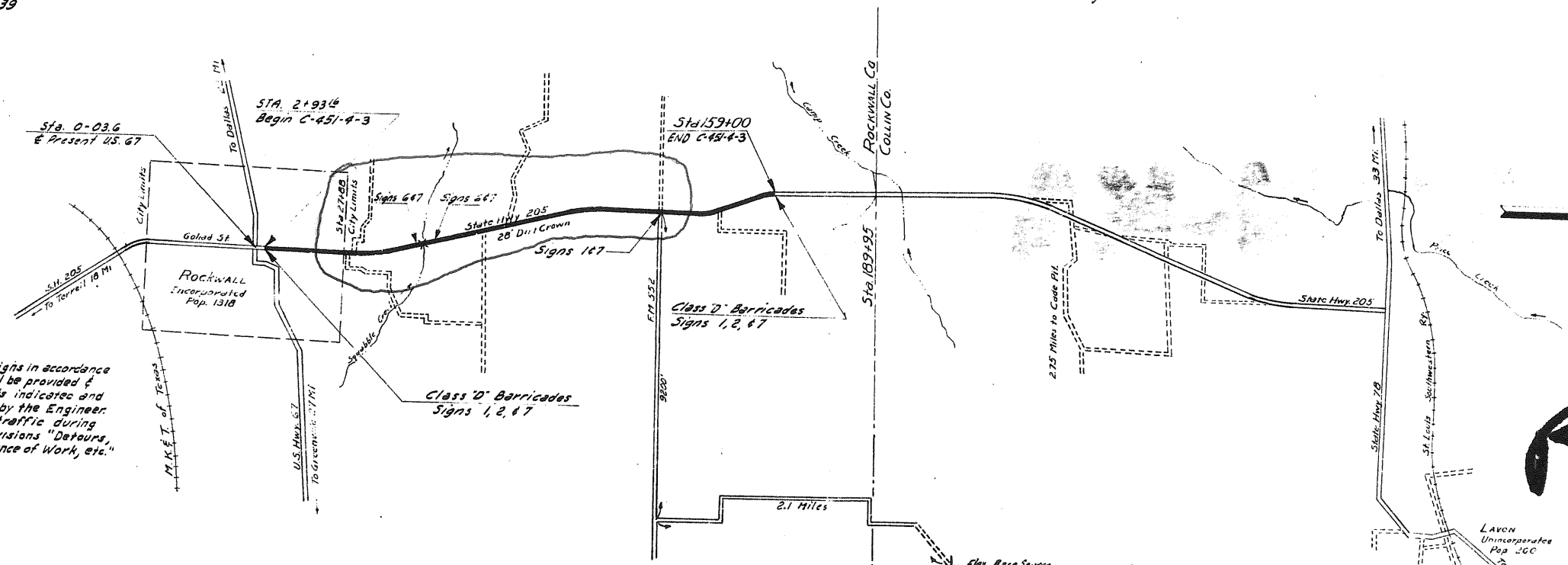
PLAN: 1 IN. = 100 FT.
 PROFILE: 1 IN. HOR. = 100 FT., 1 IN. VERT. = 10 FT.
 CROSS-SECTIONS: 1 IN. HOR. AND VERT. = 5 FT.
 OTHERS AS NOTED.

NET LENGTH OF PROJECT
 ROADWAY: 15,475.81 FT. = 2.931 MI.
 BRIDGES: 125.0 FT. = 0.023 MI.
 TOTAL: 15,600.81 FT. = 2.954 MI.

ROCKWALL COUNTY
 FROM PRESENT HWY. U.S. 67 IN ROCKWALL, NORTH, TO 0.6 MI. SOUTH OF
 COLLIN COUNTY LINE
**GRADING, DRAIN. STRUCT., FLEXIBLE BASE, ASPHALT STABILIZATION,
 & DOUBLE ASPHALT SURFACE TRTMT.**

913
 Control C-451-4-3

64



Standard Barricades & Warning Signs in accordance with S.H.D. Standard BW-46 shall be provided & erected by the Contractor at points indicated and at such other points as directed by the Engineer. The road shall be kept open to traffic during construction. See Special Provisions "Detours, Barricades, Warning Signs, Sequence of Work, etc."

EQUATIONS: - STA. 32+00² Back =
 STA. 32+06² Ahead, Minus 6.03'
 NO EXCEPTIONS.
 NO RAILROAD CROSSINGS.

RAILROAD DELIVERY POINTS			
R.R. DEL. PT.	RAILROAD	DISTANCE	CAPACITY
Rockwall	M.K.&T.	1 MILE	30 CARS

SPECIFICATIONS ADOPTED BY THE STATE HIGHWAY DEPARTMENT OF TEXAS, JANUARY 13, 1936, AND APPROVED BY THE PUBLIC ROADS ADMINISTRATION, FEBRUARY 16, 1936, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT:
 Special Labor Provisions for Texas Highway Projects, adopted August 14, 1940.

LAYOUT SCALE: 1 IN. = 2,000 FT.

R-913

181355

RECOMMENDED FOR APPROVAL: Jan. 22, 1949
Frankie Hamilton
 DISTRICT ENGINEER

PROJ. NO. _____
 COUNTY _____
 HWY. NO. _____
 DATE ACCEPTED _____
 LETTING DATE _____



CITY OF ROCKWALL
 APPROVED: July 12, 1949
B. J. Kistler
 MAYOR

STATE HIGHWAY DEPARTMENT

CORRECT: July 7, 1948

RECOMMENDED FOR APPROVAL: July 17, 1948

APPROVED: _____

RECOMMENDED FOR APPROVAL: _____

RECOMMENDED FOR APPROVAL: _____

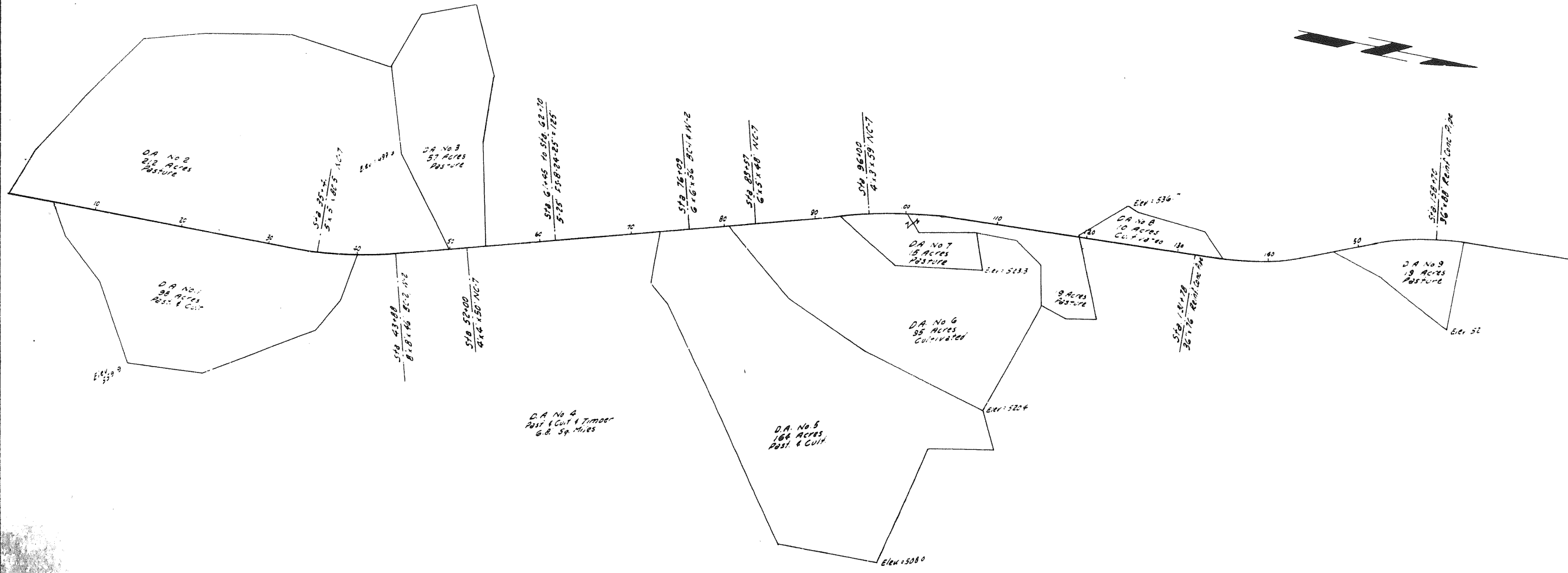
APPROVED: _____

APPROVED: _____

RUNOFF DATA

DA No.	L Feet	V Ft./Sec. (runoff)	T Min.	C	M. Hm.	A Acres	Q c.f.s.	Annual Inflow Area	Yield	STRUCTURE
1	2470	3.78	10.9	0.45	6.5	98	286	25	18%	3'x5'x88' NC-7
2	3700	3.6	17.1	0.45	5.8	212	509	64	18%	8'x8'x46' BC-2 & W-2
3	1200	3.53	5.7	0.40	7.5	57	171	16	11%	4'x4'x88' NC-7
4	16368	1.70	160.5	0.80	1.55	4858	2026	1875	21%	8'x8' - FS. 8'x8' - 28' Spans
5	3900	2.3	28.3	0.60	4.4	164	433	36	18%	6'x6'x56' BC-1 & W-2
6	3200	2.45	21.8	0.60	5.0	95	285	30	14%	6'x5'x48' NC-7
7	1380	1.31	17.6	0.40	5.2	34	71	12	10%	4'x3'x58' NC-7
8	770	0.93	13.8	0.60	5.8	10	35	7.07	20%	36'x16' Reinf. Conc. Pipe
9	980	2.38	6.9	0.40	6.8	19	51.7	7.07	20%	36'x16' Reinf. Conc. Pipe

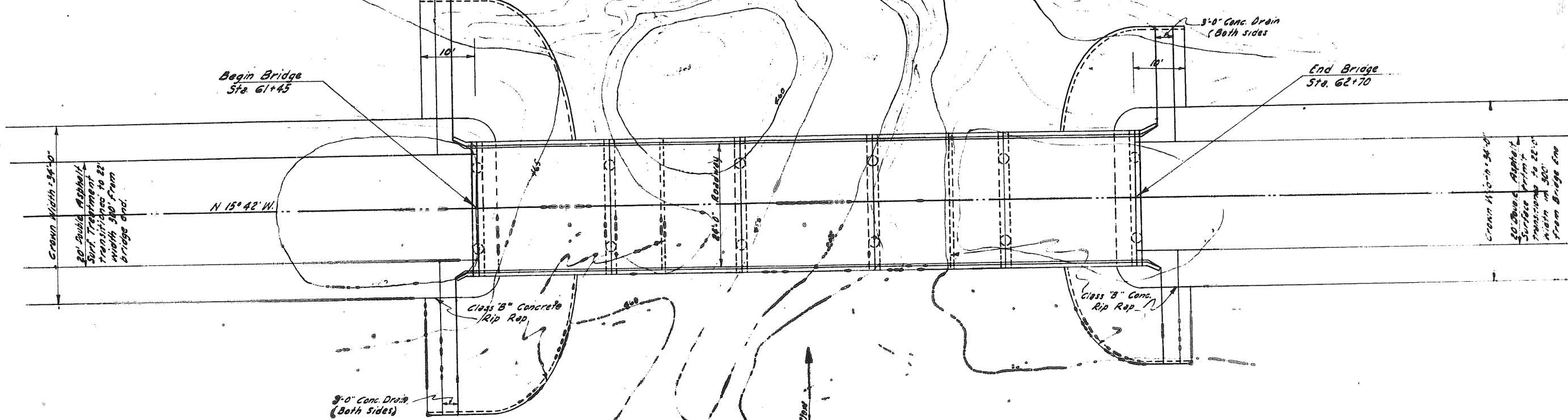
10 Year Frequency used for runoff calculations for Boxes.
25' Bridge.



**DRAINAGE AREA
MAP**
Scale 1" = 600'

PRO. DRAW. BY NO.	STATE	FEDERAL AID PROJECT NO.	
6	TEXAS		
STATE DIST. NO.	COUNTY	SECTION	TRACT
10	ROCKWALL	607	3

STATE	FEDERAL AID PERCENT	DATE
TEXAS		
COUNTY		
PROJECT NO.		
10 Rockwall	441	6 3 50

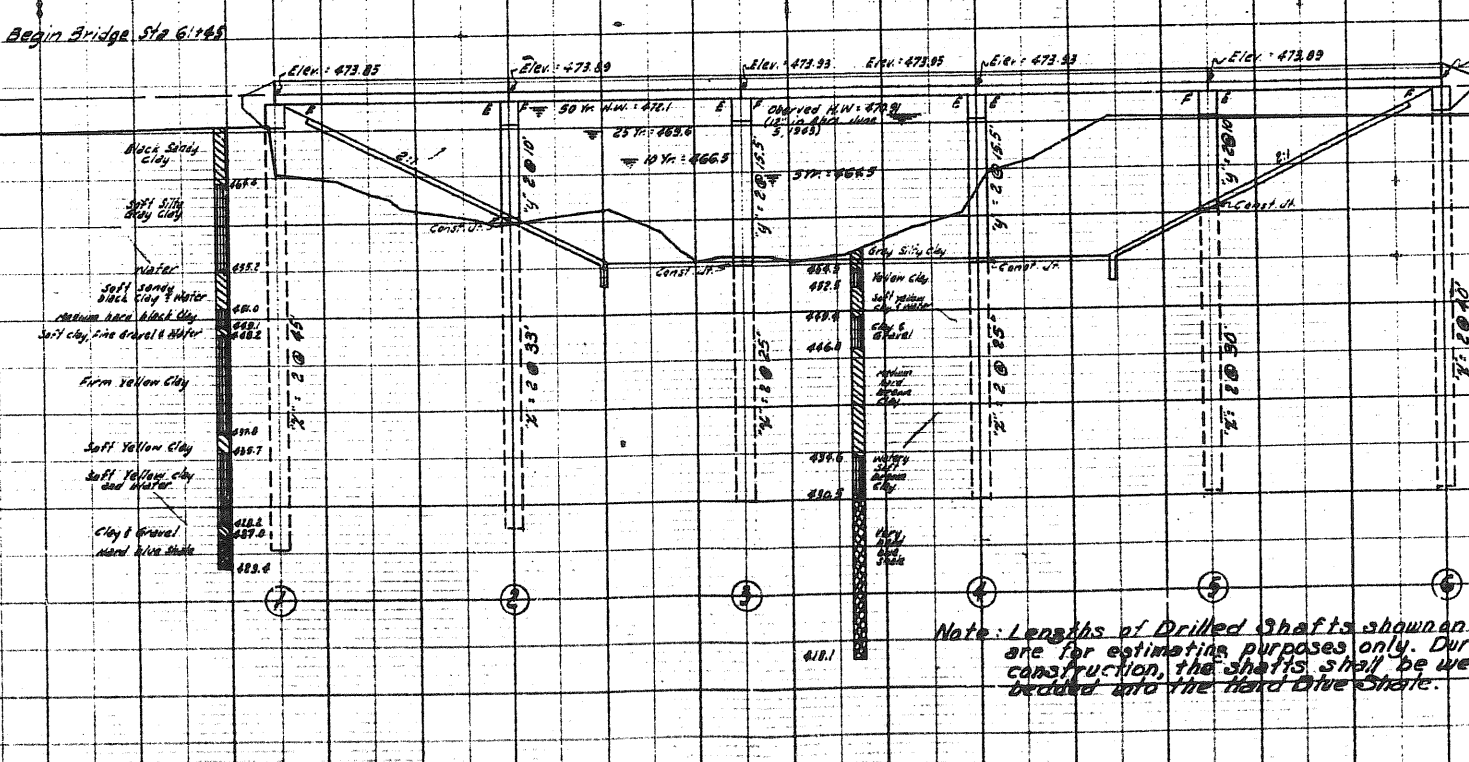
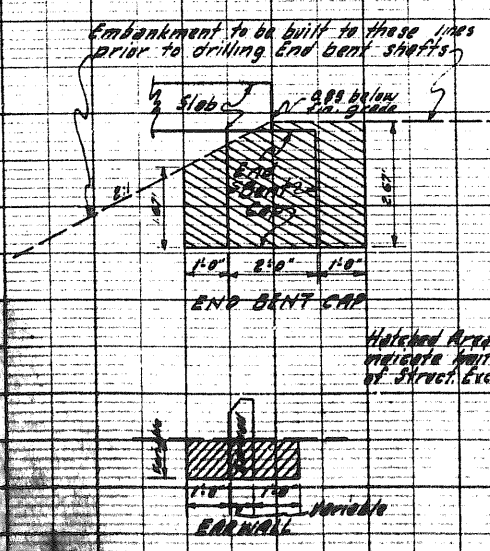


HYDRAULIC DATA
 Drainage Area: 6.81 Sq. Mi. = 4,358 Ac.
 Length: 3.1 Mi. = 16,368 ft.
 Texas Board of Water Engineers
 peak flow for Max. Flood = 15,000 c.f.s.
 5yr. freq. = 7.3% Max. = 1095 c.f.s.
 10yr. freq. = 10.8% Max. = 1620 c.f.s.
 20yr. freq. = 14.2% Max. = 2280 c.f.s.
 25yr. freq. = 17.0% Max. = 2550 c.f.s.
 50yr. freq. = 23.0% Max. = 3450 c.f.s.
 100yr. freq. = 30.5% Max. = 4575 c.f.s.
 Total opening below H.W. level (65 ft.) = 1173 sq. ft.
 V₆₅ = 2.17 ft./sec.

Note: Each bent consists of 2-20" dia. drilled shafts of the length and number shown on profile. Dimension "X" shall be paid for under item "Drilled shafts. Dimension 'Y' shall be paid for under item "Cl. A Conc. Columns & Bents".

5 Spans @ 25' = 125'
 Total bridge Camber = 0.10'

UNIT	UNCLASS. STRUCT. EXCAV. C.Y.	CLASS A CONCRETE SLABS C.Y.	CLASS A CONCRETE COLUMNS & BENTS C.Y.	REINF. 5#6 LBS.	2-20" DRILLED SHAFTS L.F.	CLASS B CONC. RIP RAP C.Y.
5-20' Slabs FS-B-24-25		129.0		26,315		
6 Drilled Shaft Bents FS-B-24-25	20		38.2	7,650	396	86.0
4-Wingspan FS-B-24-25	1	1.98		1.32		
Total Quantities	21.0	129.0	39.68	34,103	396	86.0



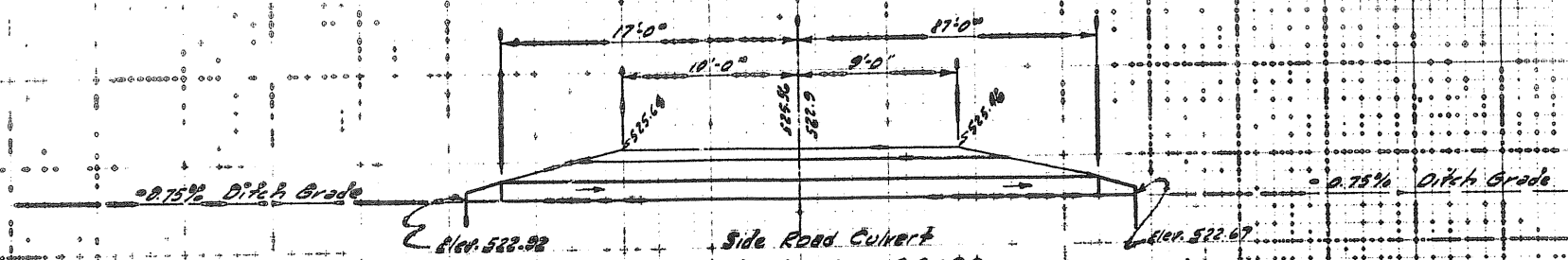
SQUABBLE CREEK BRIDGE
STATE HWY. 205
ROCKWALL COUNTY
 STA. 61+45 to STA. 62+70
 5-25' FS-B-24-25 SPANS
DRILLED SHAFTS
 Scale 1"=10'

Note: Lengths of Drilled Shafts shown on plans are for estimating purposes only. During construction, the shafts shall be well bedded into the hard drive shaft.

PLAN
 DRAWN BY
 CHECKED BY
 DATE

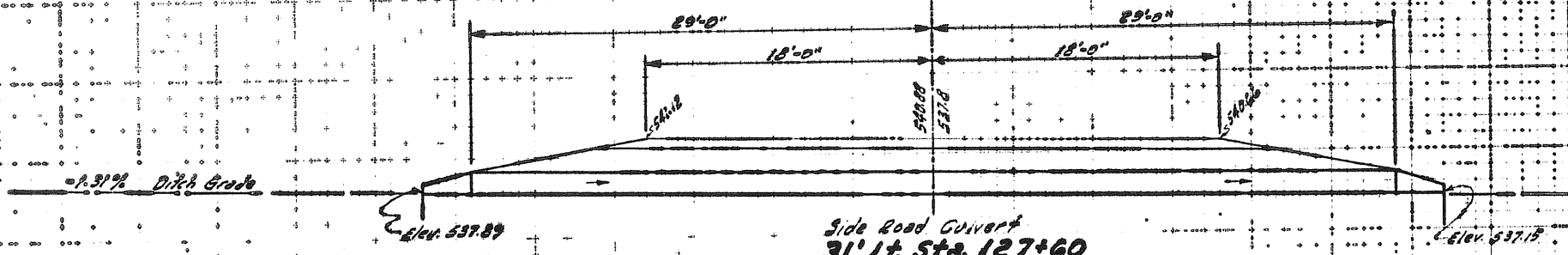
PROFILE
 DRAWN BY
 CHECKED BY
 DATE

STRUCT. EXCAV. DIAGRAMS



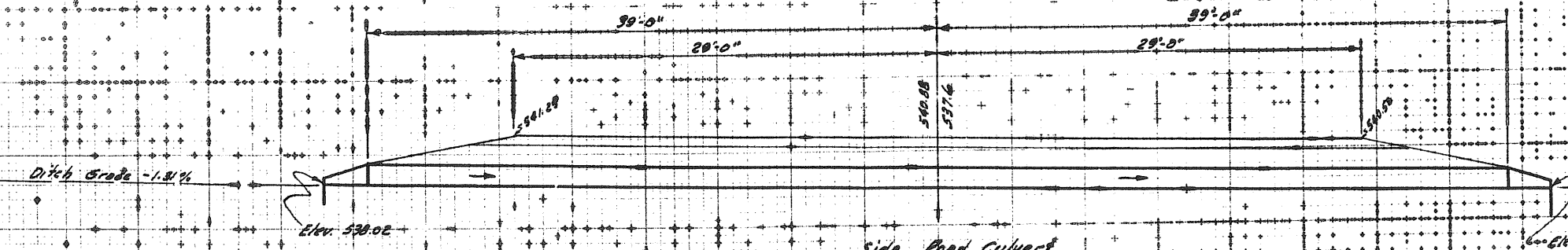
Side Road Culvert
 31' Rt. Sta. 146+30
 DESIGN #2 x 34' CORR. GALV. METAL PIPE ARCH
 2 - METAL END SECTIONS

ESTIMATE OF QUANTITIES
 Design #2 Corr. Galv. Metal Pipe Arch = 24 L.F.
 Design #2 Metal End Sections = 2 Ea.
 Unclass. Struct. Excavation = 1.2 CY



Side Road Culvert
 31' Lt. Sta. 127+60
 DESIGN #3 x 58' CORR. GALV. METAL PIPE ARCH
 2 - METAL END SECTIONS

ESTIMATE OF QUANTITIES
 Design #3 Corr. Galv. Metal Pipe Arch = 56 L.F.
 Design #3 Metal End Sections = 2 Ea.
 Unclass. Struct. Excavation = 2 CY



Side Road Culvert
 31' Rt. Sta. 127+60
 DESIGN #3 x 78' CORR. GALV. METAL PIPE ARCH
 2 - METAL END SECTIONS

ESTIMATE OF QUANTITIES
 Design #3 Corr. Galv. Metal Pipe Arch = 76 L.F.
 Design #3 Metal End Sections = 2 Ea.
 Unclass. Struct. Excavation = 2 CY

PLAN

55

ORIGINAL SURVEY NOTE BOOK NO.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SECTION
6	TEXAS		21
PROJECT NO.	COUNTY	SECTION NO.	SHEET NO.
18	ROCKWALL	43	205

FINAL SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

Estimated Quantities

Class B Excavation	1.5	CY
Reinforcing Steel	1.0	100
36" Std. Reint. Conc. Pipe	1.0	LF
Class B Conc. Rip Rap	1.0	LF
Unclass. Struct. Excav.	1.0	CY
Conc. & Spl. Chan. Excav.	1.0	CY
Black Sod (U.S. & D.S.)	1.0	CY

HYDRAULIC DATA

A	10
B	18.8
C	28
D	46.0
E	35
F	20

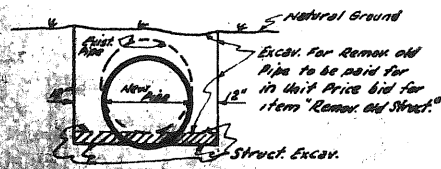
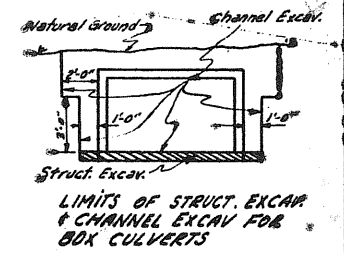
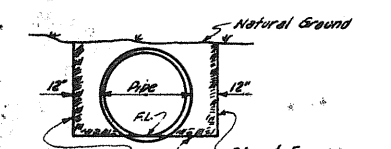
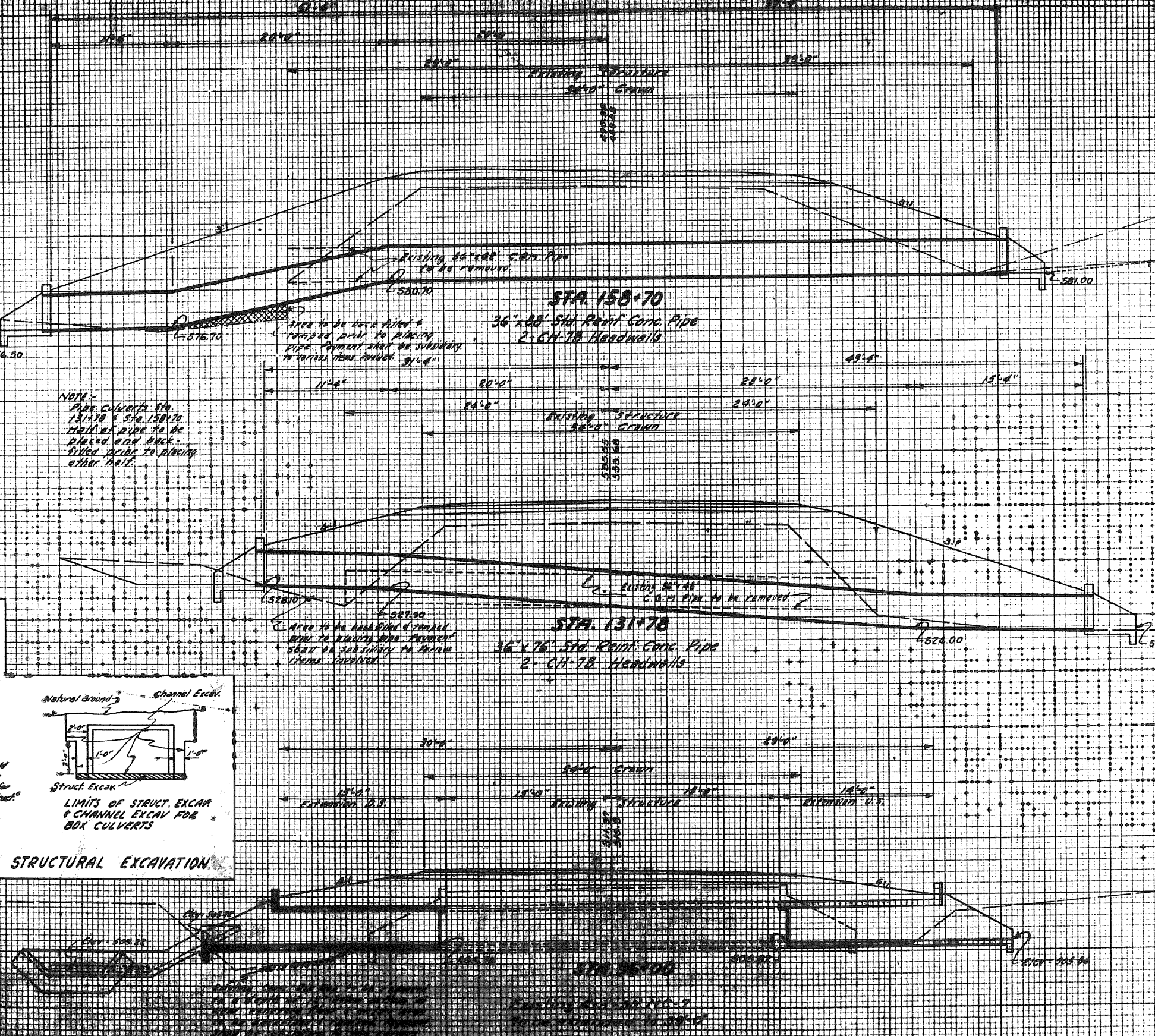
NOTE:
 Pipe Culverts Sta. 131+78 & Sta. 150+70
 Half of pipe to be placed and back-filled with acid to placing other half.

Estimated Quantities

Class "A" Concrete	270	CY
Reinforcing Steel	130	100
36" Std. Reint. Conc. Pipe	75	LF
Unclass. Struct. Excav.	11.7	CY
Conc. & Spl. Chan. Excav.	10	CY
Black Sod (U.S. & D.S.)	13	CY

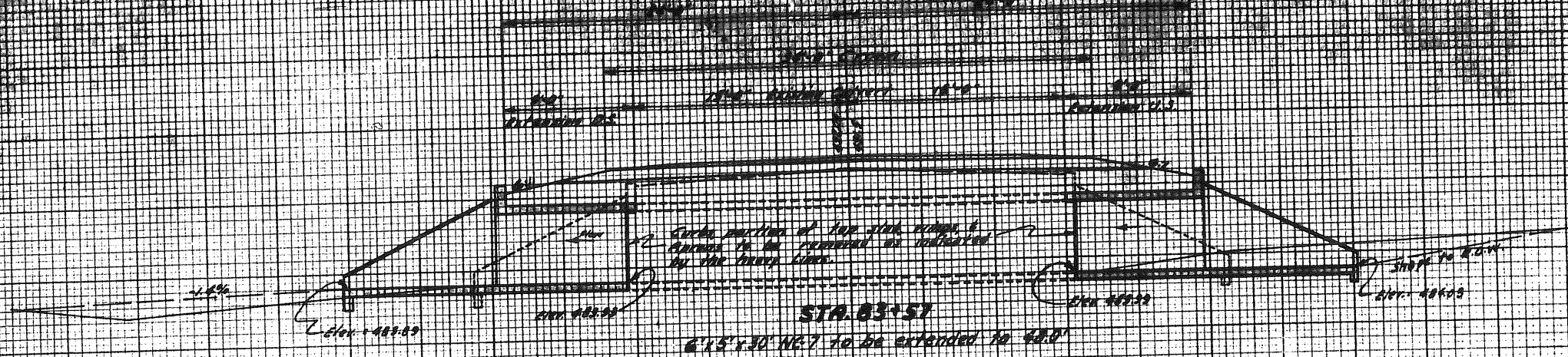
Estimated Quantities

Class "A" Conc. (Ext. Struct.)	11.33	CY
Reinforcing Steel	21.0	100
Class "B" Conc. Rip Rap	0.0	CY
Unclass. Struct. Excav.	3.0	CY
Conc. & Spl. Chan. Excav.	11.5	CY
Black Sod (U.S.)	10	CY



STRUCTURAL EXCAVATION

1. 1/2" Black Slat
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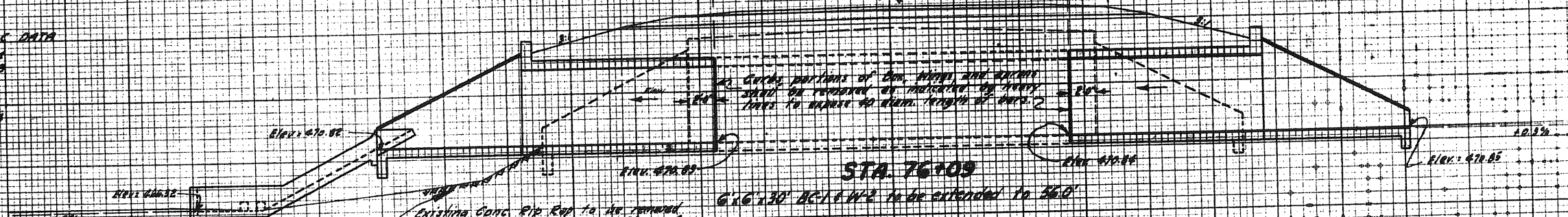


ESTIMATE OF QUANTITIES

Class "A" Conc. (Extend Struct)	38.2 CY
Reinf. Steel	40.9 lbs
Class "B" Conc. Rip Rap	27.5 Yd
Unclass Struct. Excav.	5.3 CY
Conc. & Sol. Chan. Excav.	10.5 Yd
Block Sod (U.S.)	10.0 Yd

HYDRAULIC DATA

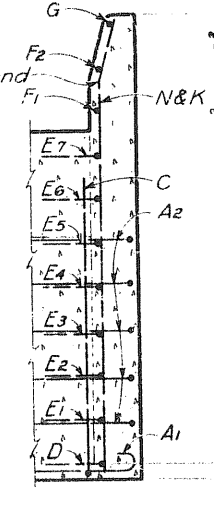
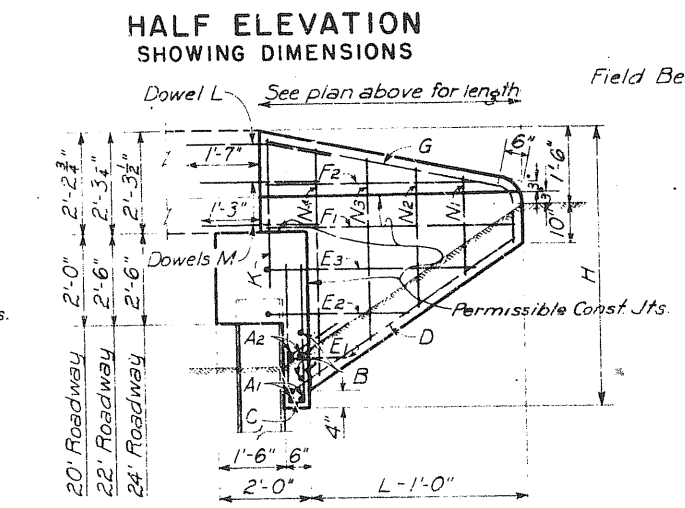
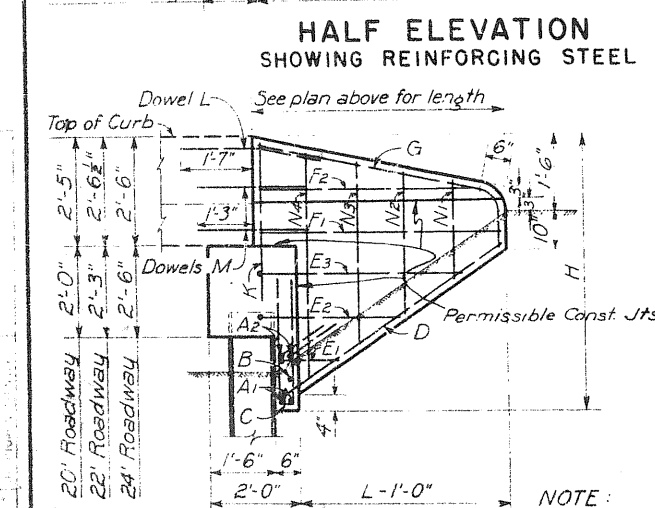
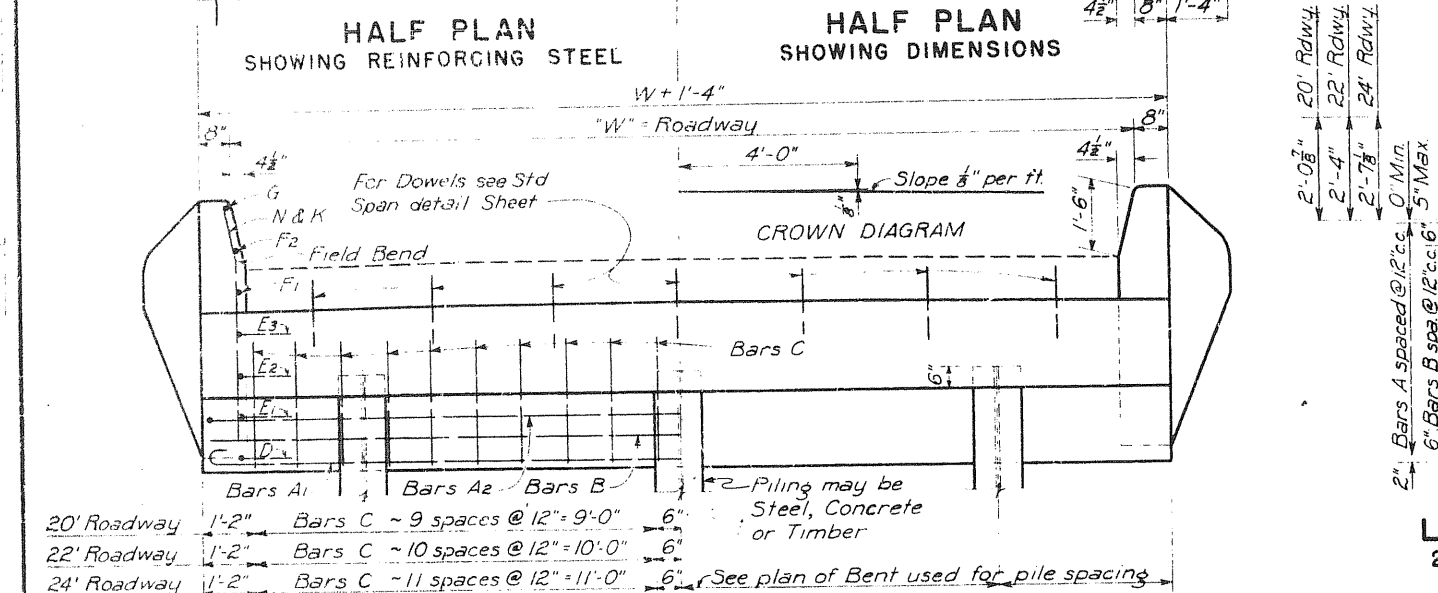
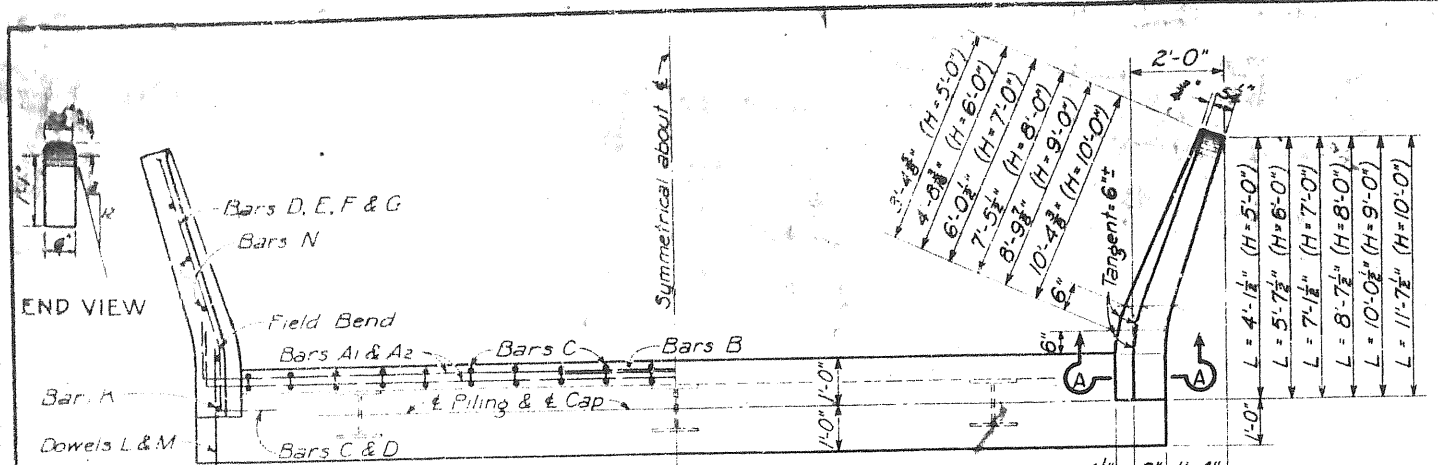
H = 16.0
V = 26.3
L = 6.4
C = 0.6
Q = 985
V = 38.4



ESTIMATE OF QUANTITIES

Class "A" Conc. (Extend Struct)	40.0 CY
Reinforcing Steel	40.0 lbs
Class "B" Conc. Rip Rap	10.0 Yd
Unclass Struct. Excav.	5.0 CY
Conc. & Sol. Chan. Excav.	10.0 Yd
Block Sod (U.S.)	10.0 Yd



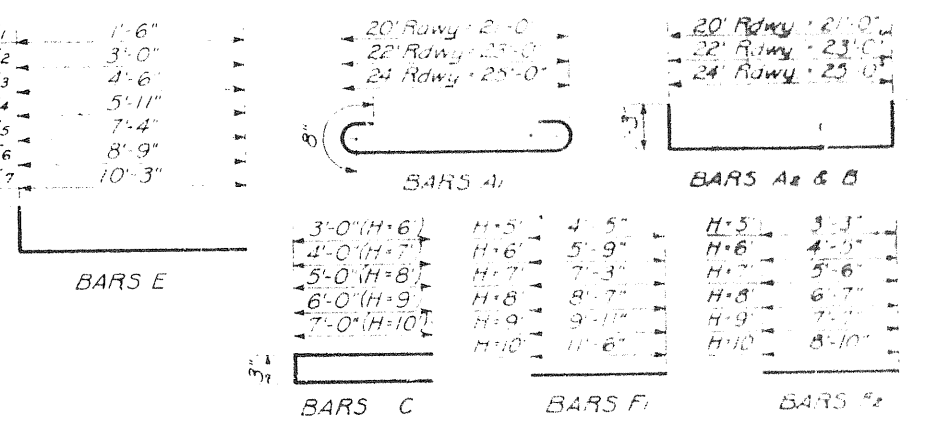


BILL OF REINFORCING STEEL FOR ONE BACKWALL

ROADWAY WIDTH	H = 6'-0"				H = 7'-0"				H = 8'-0"				H = 9'-0"				H = 10'-0"													
	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT					
20'-0"	A1	2	1/2"	22'-1"	29	A1	2	1/2"	22'-1"	29	A1	2	1/2"	22'-1"	29	A1	2	1/2"	22'-1"	29	A1	2	1/2"	22'-1"	29					
	A2	2	1/2"	23'-6"	31	A2	4	1/2"	12"	23'-6"	63	A2	6	1/2"	12"	23'-6"	94	A2	8	1/2"	12"	23'-6"	126	A2	10	1/2"	12"	23'-6"	157	
	B	1	1/2"	12"	23'-6"	25	B	2	1/2"	12"	23'-6"	49	B	3	1/2"	12"	23'-6"	74	B	4	1/2"	12"	23'-6"	99	B	5	1/2"	12"	23'-6"	124
22'-0"	C	20	1/2"	12"	6'-3"	84	C	20	1/2"	12"	8'-3"	110	C	20	1/2"	12"	10'-3"	137	C	20	1/2"	12"	12'-3"	164	C	20	1/2"	12"	14'-3"	191
	Total Weight				169	Total Weight				251	Total Weight				334	Total Weight				417	Total Weight				500					
	A1	2	1/2"	24'-1"	32	A1	2	1/2"	24'-1"	32	A1	2	1/2"	24'-1"	32	A1	2	1/2"	24'-1"	32	A1	2	1/2"	24'-1"	32	A1	2	1/2"	24'-1"	32
24'-0"	A2	2	1/2"	25'-6"	34	A2	4	1/2"	12"	25'-6"	68	A2	6	1/2"	12"	25'-6"	102	A2	8	1/2"	12"	25'-6"	136	A2	10	1/2"	12"	25'-6"	170	
	B	1	1/2"	12"	25'-6"	27	B	2	1/2"	12"	25'-6"	53	B	3	1/2"	12"	25'-6"	80	B	4	1/2"	12"	25'-6"	106	B	5	1/2"	12"	25'-6"	133
	C	22	1/2"	12"	6'-3"	92	C	22	1/2"	12"	8'-3"	121	C	22	1/2"	12"	10'-3"	151	C	22	1/2"	12"	12'-3"	180	C	22	1/2"	12"	14'-3"	209
Total Weight				185	Total Weight				274	Total Weight				365	Total Weight				454	Total Weight				544						
20'-0"	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35					
	A2	2	1/2"	27'-6"	37	A2	4	1/2"	12"	27'-6"	73	A2	6	1/2"	12"	27'-6"	110	A2	8	1/2"	12"	27'-6"	147	A2	10	1/2"	12"	27'-6"	184	
	B	1	1/2"	12"	27'-6"	29	B	2	1/2"	12"	27'-6"	57	B	3	1/2"	12"	27'-6"	86	B	4	1/2"	12"	27'-6"	115	B	5	1/2"	12"	27'-6"	143
22'-0"	C	24	1/2"	12"	6'-3"	100	C	24	1/2"	12"	8'-3"	132	C	24	1/2"	12"	10'-3"	164	C	24	1/2"	12"	12'-3"	196	C	24	1/2"	12"	14'-3"	228
	Total Weight				201	Total Weight				297	Total Weight				395	Total Weight				493	Total Weight				590					
	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35	A1	2	1/2"	26'-1"	35
24'-0"	A2	2	1/2"	27'-6"	37	A2	4	1/2"	12"	27'-6"	73	A2	6	1/2"	12"	27'-6"	110	A2	8	1/2"	12"	27'-6"	147	A2	10	1/2"	12"	27'-6"	184	
	B	1	1/2"	12"	27'-6"	29	B	2	1/2"	12"	27'-6"	57	B	3	1/2"	12"	27'-6"	86	B	4	1/2"	12"	27'-6"	115	B	5	1/2"	12"	27'-6"	143
	C	24	1/2"	12"	6'-3"	100	C	24	1/2"	12"	8'-3"	132	C	24	1/2"	12"	10'-3"	164	C	24	1/2"	12"	12'-3"	196	C	24	1/2"	12"	14'-3"	228
Total Weight				201	Total Weight				297	Total Weight				395	Total Weight				493	Total Weight				590						

ESTIMATED QUANTITIES FOR ONE BACKWALL AND TWO WINGWALLS

FOR USE WITH HEIGHT	20'-0" ROADWAY		22'-0" ROADWAY		24'-0" ROADWAY	
	BACKWALL	WINGWALLS	BACKWALL	WINGWALLS	BACKWALL	WINGWALLS
15'-0" SPANS	None Required	0.73	69	None Required	0.73	69
H-5	None Required	0.73	69	None Required	0.73	69
H-6	0.70	169	1.10	92	0.57	201
H-7	1.09	251	1.57	123	0.96	274
H-8	1.49	334	2.13	153	1.40	365
H-9	1.88	417	2.75	184	1.83	454
H-10	2.28	499	3.50	230	2.26	544
25'-0" SPANS	None Required	0.74	69	None Required	0.74	69
H-5	None Required	0.74	69	None Required	0.74	69
H-6	0.62	169	1.12	92	0.52	185
H-7	1.02	251	1.59	123	0.95	274
H-8	1.42	334	2.15	153	1.39	365
H-9	1.81	417	2.77	184	1.82	454
H-10	2.20	499	3.53	230	2.25	544



BILL OF REINFORCING STEEL FOR TWO WINGWALLS

H = 5'-0"				H = 6'-0"				H = 7'-0"				H = 8'-0"				H = 9'-0"				H = 10'-0"									
BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT	BAR NO	SIZE	SPAC	LENGTH	WEIGHT					
D	2	1/2"	5'-9"	8	D	2	1/2"	7'-6"	10	D	2	1/2"	9'-3"	12	D	2	1/2"	10'-11"	15	D	2	1/2"	12'-7"	17					
E1-2	4	1/2"	10 1/2"	Av 3'-6"	9	E1-3	6	1/2"	11"	Av 4'-3"	17	E1-4	8	1/2"	11 1/2"	Av 5'-0"	27	E1-5	10	1/2"	11 1/2"	Av 5'-8"	38	E1-6	12	1/2"	11 1/2"	Av 6'-5"	51
F1-2	4	1/2"	10 1/2"	Av 3'-10"	10	F1-2	4	1/2"	11"	Av 5'-1"	14	F1-2	4	1/2"	11 1/2"	Av 6'-5"	17	F1-2	4	1/2"	11 1/2"	Av 7'-7"	20	F1-2	4	1/2"	11 1/2"	Av 8'-9"	23
G	2	1/2"	5'-6"	7	G	2	1/2"	5'-11"	9	G	2	1/2"	6'-3"	11	G	2	1/2"	6'-8"	13	G	2	1/2"	6'-11"	15	G	2	1/2"	7'-4"	17
N1-4	8	1/2"	11"	Av 3'-0"	16	N1-5	10	1/2"	11 1/2"	Av 3'-5"	23	N1-7	14	1/2"	10 3/4"	4'-0"	37	N1-9	16	1/2"	11 1/2"	Av 4'-6"	48	N1-9	18	1/2"	12"	Av 4'-11"	59
K	2	1/2"	3'-7"	5	K	2	1/2"	3'-7"	5	K	2	1/2"	3'-7"	5	K	2	1/2"	3'-7"	5	K	2	1/2"	3'-7"	5	K	2	1/2"	3'-7"	5
L	2	1/2"	3'-2"	7	L	2	1/2"	3'-2"	7	L	2	1/2"	3'-2"	7	L	2	1/2"	3'-2"	7	L	2	1/2"	3'-2"	7	L	2	1/2"	3'-2"	7
M	4	1/2"	10 1/2"	2'-6"	7	M	4	1/2"	11 1/2"	2'-6"	7	M	4	1/2"	11 1/2"	2'-6"	7	M	4	1/2"	11 1/2"	2'-6"	7	M	4	1/2"	11 1/2"	2'-6"	7
Total Weight				69	Total Weight				92	Total Weight				123	Total Weight				153	Total Weight				184	Total Weight				230

GENERAL NOTES:
 Design Des. for use with Standard Slab Spans FS-8 (20 to 24)-15 and FS-8 (20 to 24)-25
 All concrete shall be Class A Chamfer all exposed corners 1/4" unless specified otherwise
 All dimensions relating to reinforcing steel are to centers of bars.

TEXAS HIGHWAY DEPARTMENT
BACKWALL AND WINGWALLS
 FOR 15' & 25' SLAB SPANS (FS SERIES)
 20', 22', & 24' RDWY. 8" CURBS

DATE	10/1/54	SCALE	AS SHOWN
DRAWING	Original	DATE	10/1/54
BY	AS	DATE	10/1/54
CHECKED	AS	DATE	10/1/54
APPROVED	AS	DATE	10/1/54
TOTAL	33		
NO.	18	Rockwell	151 1 3 245